Stagg pro lighting

www.staggmusic.com

User Manual

HYPERION 5R

SLI-MHB-HYP5R

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1. BEFORE USE

This package contains

- 1x Hyperion 5R
- 1x Quicklock Set
- 1x Power Cable
- 1x User Manual

Unpacking

- Thank you for purchasing this product, it has been thoroughly tested and has been shipped in perfect operating condition.
- Carefully check the packaging for damage that may have occurred during shipping.
- If the packaging appears to be damaged, carefully inspect your fixture for any damage and be sure all equipment necessary to operate the unit has arrived intact.
- If damage has been found or parts are missing, please contact your vendor or our customer support number for further instructions.

Introduction

- This fixture can operate in two different operating modes: DMX control or manual setup on the LCD.
- For best results use fog or special effects smoke to enhance the beam projection.

- ***Warning!*** To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

- ***Warning!*** This product may cause severe eye damage. Avoid looking directly into the light source at all times!

Specifications

- Light source: Philips Platinum 5R Lamp
- Electronic Ballast
- High-grade 3-layer glass Fresnel lens
- 540° pan, 270° tilt, 16 bit control with self-correction
- 9 colors + white + 4 CTO filters color wheel
- 17 fixed gobo's + open with gobo shake
- 8-facet prism with rotation
- Frost filter for wash effect
- Beam angle: 0-3.8°
- Strobe: 0~13HZ
- Motorised focus
- Pulse effect, random strobe and random pulse
- Output @10m: 150.000 lux
- Input Voltage: AC100V~240V, 50-60HZ
- Max Power Consumption: 250W
- Packing Dimensions: 440x410x540mm
- Gross weight: 16,5 Kg

Features

- 3PIN XLR DMX in and out
- Neutrik PowerCON input
- Remote lamp control + remote reset over DMX
- 2 control modes: DMX512, manual setup
- LCD Touchscreen for easy setup
- All DMX channels manually adjustable through LCD touchscreen for maintenance and debugging without DMX controller
- Push-pull cooling system with dust screens for long lamp life
- Indoor operation temperature range: -20°C~+40°C
- 2 DMX Modes: 14ch/18ch
- Dimmer: 0-100%

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

2. INSTALLATION

Installation requirements:
The product can be hung with the double mounting brackets or placed on a solid surface.

- If you install the light in a hanging position, always use a suitable mounting position and a clamp or screw that is strong enough to hold the product without stress. Always use a safety wire to secure the light.
- Always keep a distance of minimum 0.5m to all objects or persons
- Installation should always be done by a trained professional.
- Make sure the fixture always has good ventilation
- It is recommended to always use 110 Ohm DMX cable to prevent data corruption of your DMX control signal

Lamp:
- This product is equipped with an extremely powerful gas-discharge lamp which reaches high temperatures during operation. Never operate the product with the lamp exposed. Touching the lamp during operation, or even after operation may cause severe burns. Items that come into contact with the lamp when it is operational may melt or catch fire. Therefore always make sure the casing of the light is completely assembled and never open the casing before 15 minutes have passed after shutting down the light.

- Always replace the lamp within the lifetime of the bulb. When the lamp shows noticeably reduced brightness or discoloration, it is time to replace the bulb. Failure to replace the bulb within this period may result in an explosion of the bulb due it's gas-discharge nature. Any damage resulting to the product as a result of this failure will not be covered by warranty.

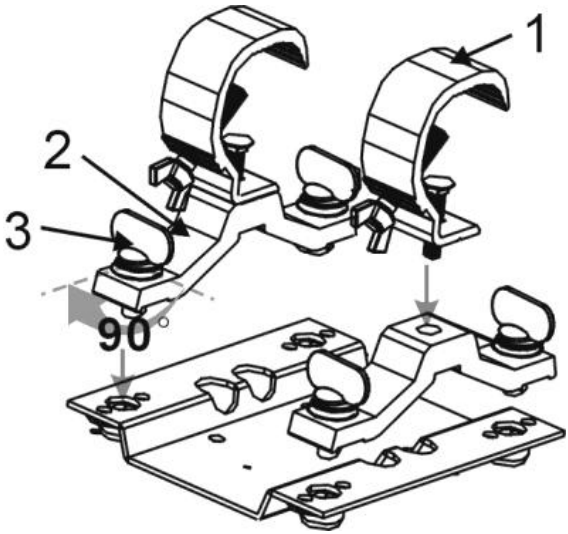
- When replacing the lamp, always make sure the lamp is completely cooled. Never touch any part of the lamp with your bare hands, always wear protective gloves as any residue on the lamp will burn and severely reduce it's lifetime. Always use a Philips MSD Platinum 5R lamp, never use a more powerful lamp as they generate excessive heat which can potentially damage the product and induce a risk of fire. Any damage or accident caused by installing an unsuitable lamp is not covered by warranty and in no circumstances Stagg Pro Lighting can be held responsible for this.

Lamp Replacement procedure:

- Always wear antistatic gloves before starting this procedure
- Switch off and unplug the unit, wait 15 minutes until it is completely cooled down
- Use the lock handles to lock the unit's tilt movement after setting it in a position where the lens is facing the same direction as the LCD screen
- Use a screwdriver to open the cover of the head by removing the screw
- Remove the fan covering the lamp compartment
- Remove the lamp gently out of the lamp compartment
- Remove the cables from the lamp
- Attach the cables to the new lamp
- Gently insert the lamp into the lamp compartment
- If you touched the lamp with your bare hands, clean it with pure cleaning alcohol thoroughly
- If necessary, you can adjust the lamp hotspot using the adjuster screw next to the lamp
- Make sure no wires touch the lamp
- Reinstall the fan
- Place the cover back on the head and reinstall the screws
- Clear the running hours of the lamp in the Advanced Menu

Installation of the Quicklock set: (Omega Clamp)

- Fix your truss hooks on the quicklock clamps with screw and locking nut
- Insert the quicklocks into the baseplate in the provided holes, then tighten them by turning them fullyclockwise
- Hang the truss hooks on the truss and tighten them. Always attach a safety cable to the light when installing the light in a hanging position.



Maintenance:

This product shoud be freed regularly from dust, other deposits and contamination. Before cleaning, always disconnect the product from the mains. Maintenance should be performed on a regular basis.

- Always make sure the product has completely cooled down
- Check all screws, they should be properly tightened and free from any corrosion.
- The housing, lenses, mounting supports and the installation location should not be deformed, modified or tampered with.
- Mechanically moving parts must not show signs of wear & tear or blockage or rubbing.
- Any cables should not show any form of damage or wear.

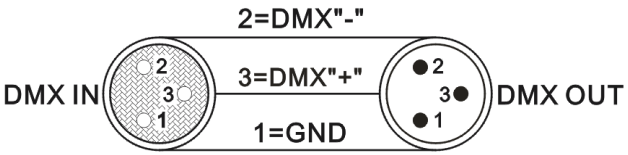
- Clean the outside lens with glass cleaner and a soft cloth, dry carefully after cleaning.
- Clean the outside of the product with a damp soft cloth. Only use water without any detergents. Never immerse the device in any liquid. Dry carefully after cleaning.
- Remove dust from the inside by blowing compressed air through the ventilation holes to expel

Power connection:
The equipment has an auto-switching power supply that can accommodate a wide range of input voltages. The only thing necessary to do before powering on the unit is to make sure the line voltage you are applying is within the range of accepted voltages.This equipment will accommodate between 100V and 240v AC 50-60HZ.

Color	Connection	PIN
Brown	AC live wire	1
Blue	AC zero curve	2
Green/Yellow	AC ground wire	3

DMX 512 Connection:
1. Connect the male 3pin DMX input of the first fixture to the female 3pin DMX output of the lighting controller using 110 Ohm DMX cable, for example a Stagg Commandor 10 (skip this step when not using a controller)
2. Connect the output of the first fixture to the input of the next fixture using 110 Ohm DMX cable. Repeat this process until you reach your last fixture. Here it is recommended to connect a DMX terminator to the output of the last fixture in the chain.

Always use proper 110 Ohm DMX cable, such as the Stagg NDX series. Using regular 600 Ohm microphone cable can cause data corruption and unwanted or bizarre response from your lights.
It is also recommended to place a DMX terminator on the last light in your DMX chain, such as the Stagg NDXTERMINR-3.



Operating Instructions:
NEVER TURN THE LIGHT OFF AND ON IN RAPID SUCCESSION, THIS WILL CAUSE THE BALLAST TO RESTRIKE THE LAMP MULTIPLE TIMES AND WILL DEGRADE LAMP LIFE SUBSTANTIALLY

The Hyperion 5R is completely set up through the large LCD touchscreen. Alternatively, the rotary wheel can be used. Rotating to the left and right cycles through menu and functions, while clicking the wheel has the same effect as tapping the touch screen.

Main Menu
- **Set Up :** Tap this button to enter the main setup menu
- **Information :** Tap this button to enter the Info menu (runtime, dmx data, errors, etc...)
- **Manual :** Tap this button to enter the manual troubleshooting menu. All DMX channels can be set manually trough this menu for maintenance and troubleshooting
- **Advanced :** Tap this button to enter the Advanced settings menu. This menu contains the touch screen calibration, startup calibration, lamp reset, etc...
- **180° (right top):** Tap this button to change the orientation of the display 180° for when installing the light in a hanging position. Tap it again to return to normal orientation.

Set Up Menu
Move up and down trough the menu with the buttons on the right of the touch screen, or by turning the rotary wheel. Push OK or click the rotary wheel to select a setting or confirm a change. Press Back on the touch screen, or select Back on the bottom of the menu and click the rotary wheel to return to the main menu.

- **Run Mode :** DMX allows you to run the light in DMX512 control mode
- **DMX Address :** Set the start adress for DMX512 control here, corresponding to Channel 1 in the DMX channel table at the en of the user manual
- **Channel Mode :** Select 14 for 14 channel mode or 18 for 18 channel mode
- **Invert Pan:** Select OFF to run the Pan movement in normal control, select ON to run the Pan movement 180° inverted
- **Invert Tilt:** Select OFF to run the Tilt movement in normal control, select ON to run the Tilt movement 180° inverted

- **Swap Pan-Tilt :** Select OFF to run Pan and Tilt movent normally, select ON to make the Pan channels control the Tilt movement and vice-versa
- **Encoder Pan-Tilt :** When set to ON, the Pan and Tilt encoders are activated. This function allows the light to auto-correct the Pan and Tilt function to return to the last received DMX values if accidentally moved by hand. When the Pan or Tilt position is changed by external influence, the encoders will automatically correct the position to return to the last stored value.
- **No DMX Signal :** Select KEEP to let the fixture keep it's position when DMX signal is cut, select CLEAR to let the fixture return to it's startup position when DMX signal is cut
- **Display Power Save :** Select OFF and the display will remain on at all time the fixture is turned on, select ON and the display will turn off after a short time of not being used
- **Burn On Startup :** Select OFF and the lamp will wait for DMX signal or manual signal trough the menu to turn on, select ON and the lamp will automatically turn on with the fixture during startup
- **Load Default :** Select this setting and confirm with "ON" to reset all settings to default factory settings, cancel by pressing Cancel

Information Menu

Move up and down trough the menu with the buttons on the right of the touch screen, or by turning the rotary wheel. Push OK or click the rotary wheel to select a setting or confirm a change. Press Back on the touch screen, or select Back on the bottom of the menu and click the rotary wheel to return to the main menu.

- **Software Version :** Here the installed software version is displayed
- **Total Fixture Hours :** Displays the total amount of time the fixture has run since first startup
- **Partial Fixture Hours :** Displays the amount of time the fixture has run since the last startup
- **Total Lamp Hours :** Displays the total amount of time the lamp has run since first startup
- **Partial Lamp Hours :** Displays the amount of time the lamp has run since the last startup

- **DMX Information :** Enters the DMX Information page. Here real-time information about the DMX channels of the fixture

- **System Errors :** Enters the System Errors page, here all System Errors (if present) are displayed

Manual Control Menu
Move up and down trough the menu with the buttons on the right of the touch screen, or by turning the rotary wheel. Push OK or click the rotary wheel to select a setting or confirm a change. Press Back on the touch screen, or select Back on the bottom of the menu and click the rotary wheel to return to the main menu.

All functions in this menu are for maintenance and testing purposes only, and will only function when no DMX input signal is present.

- **Reset :** Resets all the fixture's DMX channels to default value
- **Lamp Control :** Turn the fixture's lamp on or off. NEVER turn the lamp on and off quickly after eachother multiple times. This will shorten lamp life severely
- All the following functions allow you to change the different DMX channels of manually. Select the channel with up and down on the touchscreen or by turning the rotary wheel, confirm with OK. First you will adjust the hundreds value of the channel (0, 1 or 2), then the tenths (0,1,2,3,4,5,6,7,8,9) and then the single digits (0,1,2,3,4,5,6,7,8,9). Moving trough them is done by pressing OK or the rotary wheel. Take in mind that when you have selected the singles and you go past 9, the tenths will increment by one. The same for when you have selected the tenths, then the hundreds will increment.

Advanced Menu
When trying to access this menu, a password is required to be entered on the following screen. The password is **UP, DOWN, UP, DOWN** and then confirming with OK.

Move up and down trough the menu with the buttons on the right of the touch screen, or by turning the rotary wheel. Push OK or click the rotary wheel to select a setting or confirm a change. Press Back on the touch screen, or select Back on the bottom of the menu and click the rotary wheel to return to the main menu.

- **Touch Screen Calibration :** Selecting this will open the calibration page for the Touch Screen. Tap on the cross in each corner to re-calibrate the input

from the display

- **Reset Calibration :** Selecting this will open the sub-menu where you can adjust the default values for the startup and reset position. You can adjust the position of Pan, Tilt, Gobo Wheel, Color Wheel and Focus
- **Lamp Life Hours :** Here you can enter the maximum life time of the lamp you have installed
- **Lamp Hours Clear :** Select this to reset the total runtime of the lamp in the Information menu. This should be done every time a lamp is replaced

DMX 512 Control

This function allows you to use a universal DMX-512 controller such as the Stagg COMMANDOR 10 to control the HYPERION 5R, a DMX controller allows you to create unique programs tailored to your individual needs. The HYPERION 5R uses 14 and 18 DMX channel modes, this will allow you to create custom light-shows. Follow the instruction on the following DMX address charts.

DMX Channels

14 Channel mode

No.	Channel	DMX value	Description
1	Color Wheel	0	WHITE
		5	WHITE + RED
		10	RED
		15	RED + YELLOW
		20	YELLOW
		25	YELLOW + AQUAMARINE
		30	AQUAMARINE
		35	AQUAMARINE + BLUE
		40	BLUE
		45	BLUE+ MAGENTA
		50	MAGENTA
		55	MAGENTA + ORANGE
		60	ORANGE
		65	ORANGE +PINK
		70	PINK
		75	PINK+ CYAN
		80	CYAN

		85 90 95 100 105 110 115 120 125 130 135 140 145 150-255	CYAN + LIGHT GREEN LIGHT GREEN LIGHT GREEN + CTO190K CTO 190K CTO190K+CTB8000K CTB8000K CTB8000K+CTB 6500K CTB6500K CTB6500K+CTO 260K CTO260K CTO260K+ AQUAMARINE AQUAMARINE AQUAMARINE +WHITE SLOW ROTATION TO FAST ROTATION (RAINBOW EFFECT)
2	Shutter	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Closed Strobe from slow to fast Open Pulse from slow to fast Open Random slow strobe Random medium strobe Random fast strobe Open
3	Dimmer	0-255	0-100%
4	Gobo	0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 61-64 65-69	WHITE Gobo1 Gobo2 Gobo3 Gobo4 Gobo5 Gobo6 Gobo7 Gobo8 Gobo9 Gobo10 Gobo11 Gobo12 Gobo13

		70-74 75-79 80-84 85-89 90-129 130-134 135-170 171-175 176-180 181-185 186-190 191-195 196-200 201-205 206-210 211-215 216-220 221-225 226-230 231-235 236-240 244-245 246-250 251-255	Gobo14 Gobo15 Gobo16 Gobo17 Gobo fast rotation-slow rotation, backward Stop Gobo fast rotation-slow rotation, forward Gobo1 Shake (slow to fast) Gobo2 Shake (slow to fast) Gobo3 Shake (slow to fast) Gobo4 Shake (slow to fast) Gobo5 Shake (slow to fast) Gobo6 Shake (slow to fast) Gobo7 Shake (slow to fast) Gobo8 Shake (slow to fast) Gobo9 Shake (slow to fast) Gobo10 Shake (slow to fast) Gobo11 Shake (slow to fast) Gobo12 Shake (slow to fast) Gobo13 Shake (slow to fast) Gobo14 Shake (slow to fast) Gobo15 Shake (slow to fast) Gobo16 Shake (slow to fast) Gobo17 Shake (slow to fast)
5	Prism	0-127 128-255	No prism 8-facet Prism
6	Prism rotation	0-127 128-190 191-192 193-255	Prism angle adjustment 0-540° Prism rotation from fast to slow (backwards) Stop Prism rotation from slow to fast (forwards)
7	Frost	0-127 128-255	No Frost Filter Frost Filter
8	Focus	0-255	0-100%
9	Pan	0-255	PAN 0-540º
10	Pan fine	0-255	PAN 16 bit (1.8°)
11	Tilt	0-255	Tilt 0-270º

12	Tilt fine	0-255	Tilt 16 bit (1.8°)
13	RESET	0-25 26-76 77-127 128-255	NO Function Reset Gobo/Color/Frost/Prism/Focus Reset Pan/Tilt Full Reset **RESET WILL BE INITIATED AFTER HOLDING THE DMX VALUE FOR 10 SECONDS**
14	Lamp Control	0-9 10-100 101-255	No function Lamp Off Lamp On **LAMP WILL BE SWITCHED AFTER HOLDING THE DMX VALUE FOR 10 SECONDS**

18 Channel mode

No.	Channel	DMX value	Description
1	Color Wheel	0	WHITE
		5	WHITE + RED
		10	RED
		15	RED + YELLOW
		20	YELLOW
		25	YELLOW + AQUAMARINE
		30	AQUAMARINE
		35	AQUAMARINE + BLUE
		40	BLUE
		45	BLUE+ MAGENTA
		50	MAGENTA
		55	MAGENTA + ORANGE
		60	ORANGE
		65	ORANGE +PINK
		70	PINK
		75	PINK+ CYAN
		80	CYAN
		85	CYAN + LIGHT GREEN
		90	LIGHT GREEN

		95 100 105 110 115 120 125 130 135 140 145 150-255	LIGHT GREEN + CTO190K CTO 190K CTO190K+CTB8000K CTB8000K CTB8000K+CTB 6500K CTB6500K CTB6500K+CTO 260K CTO260K CTO260K+ AQUAMARINE AQUAMARINE AQUAMARINE +WHITE SLOW ROTATION TO FAST ROTATION (RAINBOW EFFECT)
2	Shutter	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Closed Strobe from slow to fast Open Pulse from slow to fast Open Random slow strobe Random medium strobe Random fast strobe Open
3	Dimmer	0-255	0-100%
4	Gobo	0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 61-64 65-69 70-74 75-79	WHITE Gobo1 Gobo2 Gobo3 Gobo4 Gobo5 Gobo6 Gobo7 Gobo8 Gobo9 Gobo10 Gobo11 Gobo12 Gobo13 Gobo14 Gobo15

		80-84 85-89 90-129 130-134 135-170 171-175 176-180 181-185 186-190 191-195 196-200 201-205 206-210 211-215 216-220 221-225 226-230 231-235 236-240 244-245 246-250 251-255	Gobo16 Gobo17 Gobo fast rotation-slow rotation, backward Stop Gobo fast rotation-slow rotation, forward Gobo1 Shake (slow to fast) Gobo2 Shake (slow to fast) Gobo3 Shake (slow to fast) Gobo4 Shake (slow to fast) Gobo5 Shake (slow to fast) Gobo6 Shake (slow to fast) Gobo7 Shake (slow to fast) Gobo8 Shake (slow to fast) Gobo9 Shake (slow to fast) Gobo10 Shake (slow to fast) Gobo11 Shake (slow to fast) Gobo12 Shake (slow to fast) Gobo13 Shake (slow to fast) Gobo14 Shake (slow to fast) Gobo15 Shake (slow to fast) Gobo16 Shake (slow to fast) Gobo17 Shake (slow to fast)
5	Prism	0-127 128-255	No prism 8-facet Prism
6	Prism rotation	0-127 128-190 191-192 193-255	Prism angle adjustment 0-540° Prism rotation from fast to slow (backwards) Stop Prism rotation from slow to fast (forwards)
7	Frost	0-127 128-255	No Frost Filter Frost Filter
8	Focus	0-255	0-100%
9	Pan	0-255	PAN 0-540º
10	Pan fine	0-255	PAN 16 bit (1.8°)
11	Tilt	0-255	Tilt 0-270º
12	Tilt fine	0-255	Tilt 16 bit (1.8°)

13	RESET	0-25 26-76 77-127 128-255	NO Function Reset Gobo/Color/Frost/Prism/Focus Reset Pan/Tilt Full Reset **RESET WILL BE INITIATED AFTER HOLDING THE DMX VALUE FOR 10 SECONDS**
14	Lamp Control	0-9 10-100 101-255	No function Lamp Off Lamp On **LAMP WILL BE SWITCHED AFTER HOLDING THE DMX VALUE FOR 10 SECONDS**
15	Pan/Tilt speed	0-255	Linear Speed Control
16	Color wheel speed	0-255	Linear Speed Control
17	Dimmer\Prism\Frost speed	0-255	Linear Speed Control
18	Gobo Speed	0-255	Linear Speed Control

iMPORTANT SAFETY INSTRUCTIONS

READ AND KEEP THESE INSTRUCTIONS. HEED ALL WARNINGS.

• If, after you have followed the instructions outlined above, this device fails to function, please contact your dealer. Under no circumstances should this device be opened. Leave all servicing to qualified personnel.

•,Electrical appliances must never be used in conditions of high humidity or heat. To prevent any risk of fire or electric shock, never spill or splash liquids on this device. Should this happen, unplug the power cable from the mains outlet and switch off the mixer immediately.

MARKING & CONFORMITY

1. The CE mark on this product means it conforms to the EMC Directive (2004/108/CE), CE marking Directive (93/68/EEC) and Low Voltage Directive (2006/95/EC).

2. The «Crossed-out Wheeled Bin» is to draw your attention to the WEEE (Waste Electric & Electronic Equipment) Directive (2002/96/EC). It means this apparatus must be collected separately for recycling.

3. «RoHS compliant» means this device conforms to the Directive (2002/95EC) on the restriction of the use of certain hazardous substances in electrical and electronic equipments, such as: Mercury, Lead, Cadmium, Hexavalent Chromium, Polybrominated Buphenyl (PBB) and Polybrominated Diphenyl Ethers (PBDE).

05/11/13

DISTRIBUTOR / DEALER